

# VB-M641VE & VB-M640VE

## Keep every outdoor angle covered

Fully outdoor-ready, with IK10 vandal resistance. These 1.3 MP dome cameras feature a Super-UD IR Corrected lens with an ultra wide 111.5° angle of view and high quality imaging day or night in extremely cold and hazardous areas.



With sunshade cover



- Outdoor fixed domes with 1.3 MP high sensitivity CMOS sensor for high quality imaging day or night
- Bright f/1.2-1.8 IR Corrected 2.4x Super-UD zoom lens with ultra wide 111.5° angle of view and superb low light performance
- Easy installation with remote PTRZ set up and simple pigtail connection plus additional Intruder and Scream detection
- Fully outdoor-ready, with IK10 vandal resistance and extensive weatherproofing and environmental protection
- Reliable start up and operation in extremely cold environments as low as -40°C with optional heater unit (VB-M641VE)

### Product Range

**VB-M641VE**  
**VB-M640VE**  
VB-H630VE  
VB-M620VE



(Scream Detection & Linked Events - VB-M641VE only)

## Technical Specifications

	VB-M641VE	VB-M640VE
CAMERA		
Image Sensor	1/3 type CMOS (primary color filter)	
Number of Effective Pixels	Approx. 1.3 million pixels	
Scanning Method	Progressive	
Lens	2.4 optical zoom (4x digital zoom) lens (electric drive)	
Focal Length	2.55 (W) – 6.12 mm (T)	
F-number	F1.2 (W) – F1.8 (T)	
Viewing Angle	<b>For 16:9 aspect ratios:</b> Horizontal: 111.5° (W) – 46.2° (T) Vertical: 60.5° (W) – 25.9° (T) <b>For 4:3 aspect ratios</b> Horizontal: 111.5° (W) – 46.2° (T) Vertical: 81.7° (W) – 34.6° (T)	
Day/Night Switch	Auto / Manual	
Min. Subject Illumination	<b>(F1.2, shutter speed 1/30 sec., when smart shade control is off, 50IRE)</b> Day Mode (colour): 0.02 lux Night Mode (mono): 0.001 lux  When using the Dome Unit (Smoked) (sold separately) Day Mode (colour): 0.04 lux Night Mode (mono): 0.002 lux	
Focus	Auto / One-shot AF / Manual / Fixed at infinity	
Shooting Distance (from front of lens)	Day Mode: 0.3 m (12 in.) – infinity Night Mode: 0.3 m (12 in.) – infinity	
Shutter Speed	1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/10000, 1/16000 sec.	
Exposure	Auto / Auto (Flickerless) / Auto (Shutter-priority AE) / Manual (Shutter Speed, Aperture, Gain)	
White Balance	Auto / Light Source / Manual Light Source: Daylight Fluorescent / White Fluorescent / Warm Fluorescent / Mercury Lamp / Sodium Lamp / Halogen Lamp Manual: One-shot WB / R Gain / B Gain	
Metering Mode	Center-Weighted / Average / Spot	
Exposure Compensation	9 levels	
Smart Shade Control	Auto / Manual / Disable Auto: 3 levels Manual: 7 levels – Brightens shaded areas of a video	
Haze Compensation	Auto / Manual / Disable Auto: 3 levels Manual: 7 levels	
AGC Limit	6 levels	
Image Stabilizer	2 levels (digital)	
Pan Angle Range	350° (±175°)	
Tilt Angle Range	150° (±75°)	
Rotation Angle Range	350° (±175°)	
Moving Speed	Pan: 20.1°/sec. Tilt: 20.7°/sec. Rotation: 40.0°/sec. – When Using Camera Angle Setting Tool	
SERVER		
Video Compression Method	JPEG, H.264	
Video Size	JPEG, H.264: 1280 x 720, 640 x 360, 320 x 180 1280 x 960, 640 x 480, 320 x 240	
Video Quality	JPEG, H.264: 10 levels	
Frame Rate	JPEG: 0.1 – 30 fps H.264: 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 fps  – Values represent streaming performance from the camera. – The frame rate may be reduced due to Viewer computer's specs, the number of clients accessing at the same time, network loads, video quality setting, type or movement of the subject or other reasons.  Maximum frame rate when used in the following combinations: When streaming H.264(1) (1280 x 720) and H.264(2) (1280 x 720) simultaneously: 15 fps When streaming H.264(1) (1280 x 960) and H.264(2) (1280 x 960) simultaneously: 15 fps	
I-Frame Interval	0.5 / 1 / 1.5 / 2 / 3 / 4 / 5 sec.	
Simultaneous Client Access	Max. 30 Clients + 1 Admin Client – H.264: Max. 10 Clients	
Bit Rate Control	Target Bit Rate: 64 / 128 / 256 / 384 / 512 / 768 / 1024 / 2048 / 3072 / 4096 / 6144 / 8192 / 10240 / 12288 / 14336 / 16384 kbps	
ADSR: Area-specific Data Size Reduction	Number of Specified Areas: Max. 8 areas	

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Security	Camera Control: Administrator, Authorized user, Guest user (level of control varies depending on user) Access Control: User authority (user name and password), Host Access Restrictions (IPv4, IPv6) IEEE802.1X: EAP-MD5, EAP-TLS, EAP-TTLS, EAP-PEAP Encrypted Communications: SSL/TLS, IPsec	
Protocol	IPv4: TCP/IP, UDP, HTTP, FTP, SNMP (MIB2), SMTP (Client), DHCP (Client), DNS (Client), mDNS, ARP, ICMP, POP3 (Client), NTP (Client), SMTP authentication (POP before SMTP, SMTP-AUTH), AutoIP, RTP/RTCP, RTSP, SSL/TLS, IPsec, WV-HTTP (Canon proprietary), ONVIF (Profile S, Profile G) IPv6: TCP/IP, UDP, HTTP, FTP, SMTP (Client), DHCPv6 (Client), DNS (Client), mDNS, ICMPv6, POP3 (Client), NTP (Client), SMTP authentication (POP before SMTP, SMTP-AUTH), RTP/RTCP, RTSP, SSL/TLS, IPsec, WV-HTTP (Canon proprietary), ONVIF (Profile S, Profile G)	
Audio Compression Method	G.711 µ-law (64 kbps)	-
Audio Communication Method	Full-duplex (two-way) - Echo cancellation function compliant RTP, Sound Transfer Protocol by Canon	-
Audio File Playback	Available (audio files can be played back when an event is triggered by the intelligent function or external device input.) - A third-party amplifier speaker is necessary	-
Privacy Mask	Number of registration: Max. 8 places, Number of mask colors: 1 (select from 9 colors)	
Preset	Number of registers: Max. 20 positions (+Home Position) Items to Reg.: Digital Pan / Digital Tilt / Digital Zoom, Exposure, Smart Shade Control, Focus, White Balance, Video Quality Adjustment, Day / Night, Haze Compensation Number of Preset Tour Route: Max. 1	
Intelligent Function (Video)	Detection Types: Moving Object Detection, Abandoned Object Detection, Removed Object Detection, Camera Tampering Detection, Passing Detection, and Intrusion Detection Detection Settings: Max. 15	
Intelligent Function (Audio)	Volume Detection, Scream Detection	-
Event Trigger Type	External Device Input, Intelligent Function (Video), Intelligent Function (Audio), Timer, Day / Night Switch Number of Linked Events: 2 Linked Event Conditions: AND, OR (whether or not there is a sequence to events)	Intelligent Function (Video), Timer, Day / Night Switch
Image Upload	FTP/HTTP/SMTP (e-mail)	
Event Notification	HTTP/SMTP (e-mail)	
Image Cropping Function	Digital PTZ Cropping sizes:640 x 360/512 x 288/384 x 216/256 x 144/128 x 72 640 x 480/512 x 384/384 x 288/256 x 192/128 x 96	
On-Screen Display	Available	
Daylight Saving Time	Available	
APPLICATION		
Viewer	Camera-side: Admin Viewer VB Viewer Client-side: RM-Lite Viewer	
Admin Tools	Privacy Mask Setting Tool Intelligent Function Setting Tool Log Viewer Recorded Video Utility	
Included Software	Camera Management Tool Camera Angle Setting Tool RM-Lite Proxy Authentication Admin Tools/Admin Viewer	
Language	German / English / Spanish / French/ Italian / Russian / Turkish /Chinese (Simplified) / Japanese	
Operating Environment (PC specifications and OS (does not apply to RM-Lite))	OS: Windows Vista Ultimate /Business /Enterprise / Home Premium SP2 32/64-bit  Operating System Language: German / English / Spanish / French / Italian / Russian / Turkish / Chinese (Simplified) / Japanese - Language switching environment using language-packs is not supported  Compatible Browser: Internet Explorer 8/9 32-bit Internet Explorer 10/11 - Must be configured to allow use of JavaScript, XAML browser applications, and IFRAME (html tag). - For VB Viewer only, cookies must be enabled	

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## Technical Specifications

# VB-M641VE & VB-M640VE

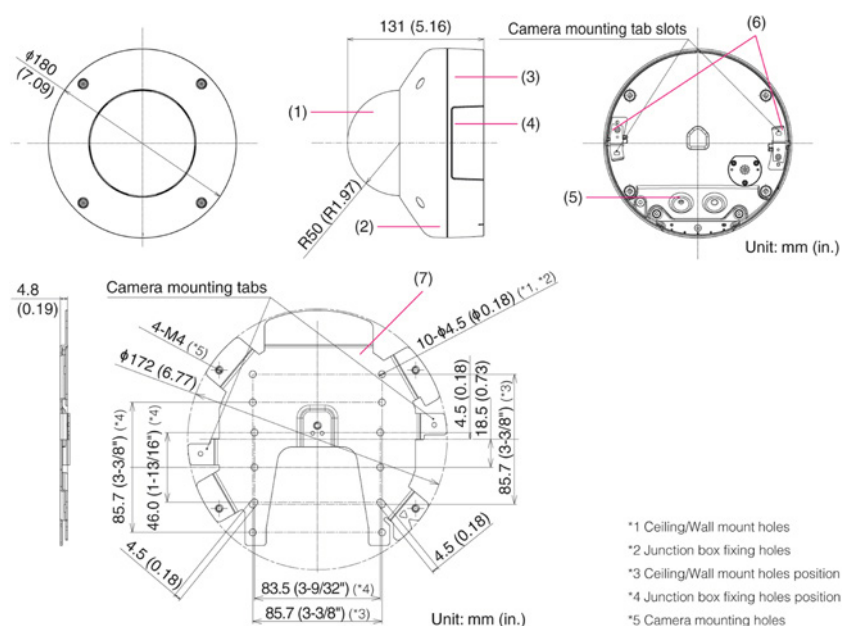
	VB-M641VE	VB-M640VE
	<p><b>Software (Runtime Libraries)</b></p> <p>.NET Framework 3.5 SP1 (When using Internet Explorer 8/9)</p> <p>- Must be installed on Windows Vista and Windows Server 2008 systems</p> <p>.NET Framework 4.5 (When using Internet Explorer 10/11)</p> <p>- Must be installed on Windows 7and Windows Server 2008 R2 systems</p> <p><b>CPU (Recommended)</b></p> <p>Intel Core i7-2600 or higher</p> <p><b>Graphics Board (Recommended)</b></p> <p>Not specified</p> <p><b>Memory (Recommended)</b></p> <p>2 GB or higher</p> <p><b>Viewer Display (Recommended)</b></p> <p>1920 x 1080 or higher</p>	
INTERFACE		
Network Terminal	LAN x 1 (RJ45, 100Base-TX (auto/full-duplex / half-duplex))	
Audio Input Terminal (common for LINE IN & MIC IN)	<p>φ3.5 mm (φ0.14 in.) mini-jack connector (monaural)</p> <p>LINE IN (connect to an amplifier microphone) or MIC IN (connect to a microphone w/o amplifier)</p> <p>- Switch LINE IN/MIC IN in the setting page.</p>	-
Audio Output Terminal (LINE OUT)	<p>φ3.5 mm (φ0.14 in.) mini-jack connector (monaural)</p> <p>LINE OUT (connect to an amplifier speaker)</p>	-
External Device I/O Terminal	Input x 2, Output x 2	-
Memory Card	<p>microSD Memory Card, microSDHC Memory Card, microSDXC Memory Card Compatible.</p> <p>Recorded Content: Log, Video (Event, Manual, ONVIF, Timer, Upload)</p> <p>Frame Rate: Max. 1 fps (JPEG)</p> <p>Max. 30 fps (H.264)</p>	

	VB-M641VE	VB-M640VE
<b>OTHER</b>		
<b>Operating Environment</b>	Temperature When the heater unit (sold separately) is installed Operating Temperature Range: AC: -40°C ~ +55°C (-40°F ~ +131°F) DC, PoE: -10°C ~ +55°C (+14°F ~ +131°F) Start-up Temperature Range: AC: -30°C ~ +55°C (-22°F ~ +131°F) DC, PoE: -10°C ~ +55°C (+14°F ~ +131°F)	Temperature PoE: -10°C ~ +55°C (+14°F ~ +131°F) - Sunshade cover (sold separately) necessary when under direct sun exposure Humidity 5% ~ 85% (without condensation)
<b>Power Supply</b>	- Sunshade cover (sold separately) necessary when under direct sun exposure When the heater unit (sold separately) is not installed AC, DC, PoE: -10°C ~ +55°C (+14°F ~ +131°F) - Sunshade cover (sold separately) necessary when under direct sun exposure Humidity 5% ~ 85% (without condensation)	PoE: PoE power supply via LAN connector (IEEE802.3at Type1 compliant) AC Adapter: PA-V18 (100 ~ 240 V AC) (sold separately) External power source: 24 V AC/12 V DC
<b>Power Consumption</b>	PoE: Max. approx. 8.9 W AC Adapter PA-V18: Max. approx. 10.5 W (100 V AC) Max. approx. 10.6 W (240 V AC) DC: Max. approx. 9.5 W AC: Max. approx. 9.1 W Max. approx. 21.7 W* * When the heater unit (sold separately) is installed	PoE: Max. approx. 8.9 W
<b>Dimensions</b>	( $\phi$ x H) $\phi$ 180 x 131 mm ( $\phi$ 7.09 x 5.16 in.) - Camera only (excluding Ceiling Plate)	
<b>Weight</b>	Approx. 1600 g (3.53 lb.)	Approx. 1570 g (3.47 lb.)
<b>Impact Resistance</b>	IK10 (20J)	
<b>Dust-resistant/Waterproof Specification</b>	IP66 rated NEMA Type 4X, IEC 60950-1/22	

### What's in the box?

- Setup CD-ROM
- Ceiling Plate
- Fixing Screw
- Safety Wire & Fixing Screw
- Wrench
- Template
- Power Interface Cable
- I/O Interface Cable
- Installation Guide
- Warranty Card
- Leaflet of Warranty Card
- Packaging

### Dimensions



### Compatible Accessories.

